

a controller, coupled to said movable member and adapted to calculate an influence coefficient value and to periodically modify said influence coefficient value and to cause said movable member to move in accordance with said calculated influence coefficient value and said modified value effective to balance said rotating assembly, wherein said influence coefficient value is calculated by recursive exponentially weighted averaging and two adaptive parameters which are adjusted during each of a plurality of control iterations.

Please cancel Claim 19.

**Claim 34 (amended):** In line 6, please delete the words “said estimated influence coefficient” and insert the words “said calculated influence coefficient” therefore.

**Claim 36 (amended):** In line 1, please delete the number “34” and insert the number “35” therefore;

In line 2, please delete the words “said estimated influence coefficient” and insert the words “said calculated influence coefficient” therefore.

**Claim 37 (amended):** In line 1, please insert the word “value” after the word “error”.